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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,860	04/13/2004	Koichi Matsuzaki	040176	2658
	7590 11/15/200 ITOS & HANSON, LL	EXAMINER		
1420 K Street,		REDDIG, PETER J		
Suite 400 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1642	
			MAIL DATE	DELIVERY MODE
			11/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/822,860	MATSUZAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Peter J. Reddig	1642			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02 Oc	<u>ctober 2007</u> .				
· <u> </u>	,—				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 15-18 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) 15-18 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other: Notice to Co	atent Application			

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DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

Specification

- 2. The specification is objected to for improper disclosure of amino acid sequences without a respective sequence identifier, i.e. a SEQ ID NO: see Figure 1, the last four amino acids on Smad2 and Smad3. Hence, the disclosure fails to comply with the requirements of 37 CFR 1.821 through 1.825. In the absence of a sequence identifier for each sequence, Applicant must provide a computer readable form (CRF) copy of the sequence listing, an initial or substitute paper copy of the sequence listing, as well as any amendment directing its entry into the specification, and a statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e-f) or 1.825(b) or 1.825(d). Failure to supply the appropriate sequences identification numbers in response to this action will be considered non-responsive.
- 3. The disclosure is objected to because of the following informalities: The specification refers to Table 8 on page 39 and there is no Table 8.

Appropriate correction is required.

Examiner's Amendment

- 4. During a telephone conversation conducted on November 7, 2007, Daniel A Geselowitz authorized the following Examiner's Amendment.
- 5. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R.

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1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

- 6. The Amendment filed October 2, 2007 in response to the Office Action of September 19, 2007 is acknowledged and has been entered. Previously pending claims 1, 4, 5, and 7-12 have been cancelled and claims 3 and 6 have been amended. Claims 71-75 have been added. Claims 3, 6, 13, and 14 are pending. Claim 6 was previously withdrawn from consideration.
- 7. Claims 3, 13, and 14 are currently under consideration.
- 8. The application has been amended as follows:
 - i. Claims 3, 6, 13, and 14 were cancelled.
 - ii. New claims 15-18 were added:

Claim 15 (new). A polyclonal antibody specific for a phosphorylated linker region in Smad2, obtained from antiserum raised by immunizing a mammal with a phosphorylated product of a peptide including an amino acid sequence in the linker region of Smad2, wherein the phosphorylated product of a peptide including the amino acid sequence in the linker region of Smad2 for the immunization is: Pro Ala Glu Leu p-Ser Pro Thr Thr Leu p-Ser Pro Val Asn His Ser (SEQ ID NO: 1) wherein p-Ser represents phosphorylated serine.

Claim 16 (new). A polyclonal antibody specific for a phosphorylated linker region in Smad3, obtained from antiserum raised by immunizing a mammal with a phosphorylated product of a peptide including an amino acid sequence in the linker region of Smad3, wherein the phosphorylated product of a peptide including the amino acid sequence of the linker region of Smad3 for the immunization is: Ala Gly Ser Pro

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Asn Leu p-Ser Pro Asn Pro Met p-Ser Pro Ala (SEQ ID NO 2) wherein p-Ser represents phosphorylated serine.

Claim 17 (new). The polyclonal antibody according to claims 15 or 16, wherein the mammal is a rabbit.

Claim 18 (new). The polyclonal antibody according to claims 15 or 16, wherein the raised antiserum is affinity purified with a phosphorylated peptide(s).

- 9. Authorization for this Examiner's Amendment was given in a telephone interview with Daniel A Geselowitz on November 7, 2007.
- 10. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.
- 11. A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter J. Reddig whose telephone number is (571) 272-9031. The examiner can normally be reached on M-F 8:30 a.m.-5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shanon Foley can be reached on (571) 272-0898. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUSAN UNGAR, PH.D PRIMARY EXAMINER

Peter J. Reddig Examiner Art Unit 1642

PJR